

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-50 (canceled).

51. (previously presented) Transmission comprising a driveshaft (3), an output shaft (4) and a housing (1) including a centering flange (5) and an attachment flange (6), the housing (1) is provided with at least one electronic display system (11), wherein the electronic display system (11) is connected to a plurality of sensors (13) distributed radially around the housing comprising strain sensors, force sensors, temperature sensors and, incremental sensor, assigned to a transmission, permissible values and limiting values such as force, temperature, service life, number of revolutions are visually displayed and read off on the electronic display system (11) wherein the values which are generated in the electronic display system (11), are transmitted in a wireless fashion to an external evaluation device (10), wherein the housing is provided with a radially circumferential constriction (19) and a plurality of the strain sensors are arranged separated from one another radially around the circumferential constriction.

52. (previously presented) Transmission according to claim 51, wherein the centering flange (5) has at least one radially circumferential groove (15) in which at least one damping element (14) is located.

53-54. (canceled).

55. (previously presented) Transmission according to claim 51, wherein the plurality of strain sensors (9) are distributed radially around the attachment flange (6) in the region of the housing (1), opposite the centering flange (5).

56. (canceled).

57. (previously presented) Transmission according to claim 51, wherein the attachment flange (6) is spaced apart coaxially from an outer casing (20) of the housing (1) by a radial indent (18).

58. (previously presented) Transmission according to claim 57, wherein the attachment flange (6) is provided with the radially circumferential constriction (19) proximate to the indent (18) and at least one strain sensor (9) is accommodated in the constriction (19).

59. (canceled).

60. (previously presented) Transmission according to claim 51, wherein at least one strain sensor (9) comprises a strain gauge connected to an evaluation unit (10) and an electronic display system (11).

61. (previously presented) Transmission according to claim 60, wherein radial forces are determined with the at least one strain sensor (9) and when a predefined limiting value is exceeded, a signal is generated and displayed in the electronic display system (11).

62. (previously presented) Transmission according to claim 61, wherein the signals which are generated by the at least one strain sensor (9) are recorded over time, stored in the evaluation unit (10) and, saved in the electronic display system (11).

63. (previously presented) Transmission according to claim 62, wherein the at least one electronic display system (11) is assigned to a base flange (2) of the housing (1).

64. (previously presented) Transmission according to claim 61, wherein transmission-specific data including force, temperature, transit time, and number of revolutions is displayed by the display unit (12).

65. (previously presented) Transmission according to claim 57, wherein a damping element (14) is inserted into the radial indent (18) and comprises an elastically deformable rubber element.

66. (previously presented) Transmission according to claim 65, wherein the damping element (14) comprises an O ring (17).

67. (previously presented) Transmission according to claim 66, wherein a plurality of circumferential grooves (16), which are spaced apart from one another and parallel to each other, are provided on the centering flange (5) and each is provided with a damping element (14).

68. (previously presented) Transmission according to claim 65, wherein the damping element (14) projects outward beyond an outer casing of the centering flange (5).

69. (new) Transmission comprising a driveshaft (3), an output shaft (4) and a housing (1) including a centering flange (5) and an attachment flange (6), the housing (1) is provided with a plurality of strain sensors (9), wherein the housing (1) is provided with a radially circumferential constriction (19) near to the attachment flange (6) and a plurality of the strain sensors (9) are arranged in the circumferential constriction (19) and are attached to the housing in the circumferential constriction (19) for measuring forces and torques acting on the transmission housing (1).

70. (new) Transmission according to claim 69, wherein the attachment flange (6) is spaced apart coaxially from an outer casing (20) of the housing (1) by a radial indent (18).

71. (new) Transmission according to claim 70, wherein the attachment flange (6) is provided with the radially circumferential constriction (19) proximate to the indent (18) and at least one strain sensor (9) is accommodated in the constriction (19).

72. (new) Transmission according to claim 69, wherein at least one strain sensor (9) comprises a strain gauge connected to an evaluation unit (10) and an electronic display system (11).

73. (new) Transmission according to claim 72, wherein radial forces are determined with the strain sensors (9) and when a predefined limiting value is exceeded, a signal is generated and displayed in an electronic display system (11).

74. (new) Transmission according to claim 73, wherein the

signals which are generated by the at least one strain sensor (9) are recorded over time, stored in an evaluation unit (10) and, saved in the electronic display system (11).

75. (new) Transmission according to claim 74, wherein the at least one electronic display system (11) is assigned to a base flange (2) of the housing (1).

76. (new) Transmission according to claim 70, wherein a damping element (14) is inserted into the radial indent (18) and comprises an elastically deformable rubber element.

77. (new) Transmission according to claim 76, wherein the damping element (14) comprises an O ring (17).